# **Education Division Business Meeting**



Join us. Just \$7 per year.
 Tuesday, October 30, 2018



The mission of this Division shall be the education of chemical engineers as it pertains to educational research, scholarly teaching, and broader endeavors encompassing education, such as the Division's programming.



## ... and another

Today's course objectives:

Information dissemination

Openness to questions and discussion

New business



## Who are we?

Executive Committee 2018-2019 Matt Liberatore, Chair Ben Davis, 1<sup>st</sup> Vice-Chair Daniel Lepek, 2<sup>nd</sup> Vice Chair Taryn Bayles, Past Chair Katie Cadwell, Secretary-Treasurer **Board Members** Polly Piergiovanni, Director, 2016-2018 Dan Burkey, Director, 2017-2019 Priscilla Hill, Director, 2018-2020 Kristine Chin, Institute Liaison (AIChE Director of Conferences)



Division Board of Directors (9 total members)

Executive Committee (5 members) Chair 1<sup>st</sup> Vice Chair 2<sup>nd</sup> Vice Chair Secretary/Treasurer Past Chair

Director1 Director2 Director3 Institute Liaison

Committees (6)





# Who we will be...Election Results

New Director Shannon Ciston (2019-2021) Bylaws update unanimously approved Added 4<sup>th</sup> director, 4 year director terms, no even year elections

38 votes cast in final even year election

Next election to be held in 2019 with many openings

Thanks to Taryn Bayles + Nominating Committee



# Regular Communication=Monthly Email

Announcements of interest to Ed Div members

- -Division business
- -Faculty postings (especially teaching-focused)
- -Calls for participation (surveys, studies)
- -Relevant calls for submission

Submit announcements to Katie Cadwell (kdcadwel@syr.edu)

Submission deadline end of month



# Finances: Looking back on 2017-18

Fund balance in March:

2015	\$8,100
2016	\$10,000
2017	\$10,400
2018	\$10,600

Revenue sources: Dues, banquet fees, award sponsorship, interest

Expenses: Banquet (net neutral), Awards, Domain registration fee, **Communication**, Mentor/ mentee food

Katie Cadwell: kdcadwel@syr.edu



# Membership (as of 5/2018)

### 673 total members (professional and student)

- Professional Members (member, senior member, or fellow)
  - 316 in 2018
  - 86% from USA
    - States with the most members: Texas (23), Michigan (20), New York (20)
    - Over 105 different universities and colleges
  - International members from 26 different countries

### **Student Members**

357 grad student members (41% USA/59% International)

International students primarily from India (45) and Pakistan (26)

Join by phone 1-800-242-4363 or ONLINE (use the business cards)

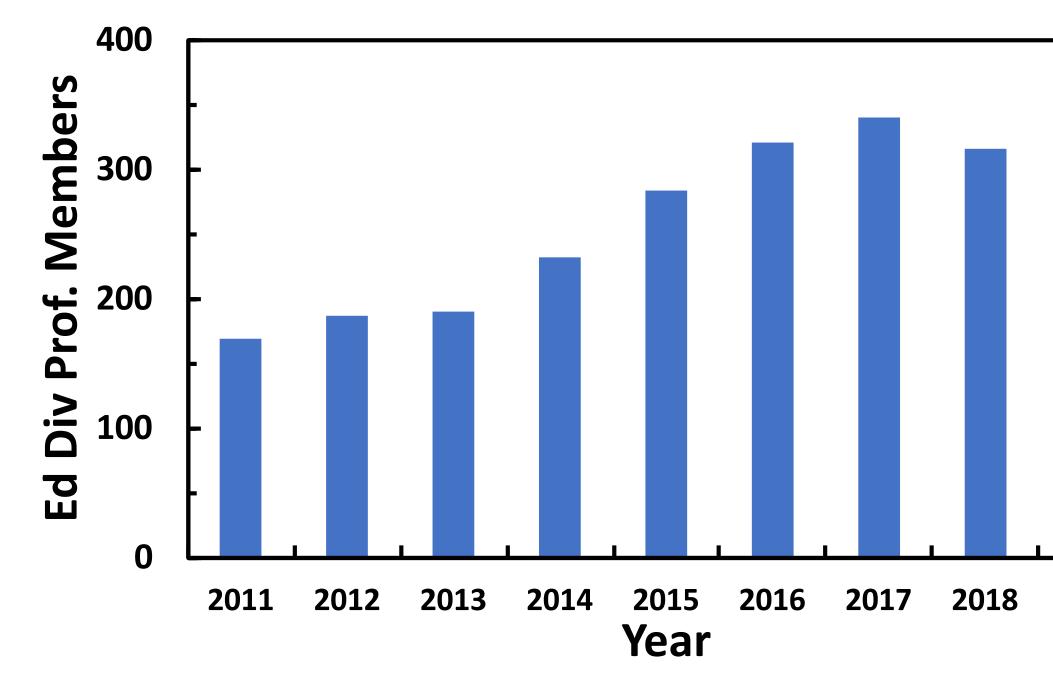
Christi Patton Luks, Priscilla Hill, Jonathan Verrett







# Membership growing???







## Ed Div Business Cards = Awesome





Join the Education Division \$7 per year

### Goal: At least 1 member in every ABET accredited department





# **Benefits of Ed Div Membership**

Networking in sessions at the Annual Meeting and the Education Division Dinner

Learning new education approaches through sessions and webinars

Impacting the chemical engineering education community through presentations and programming at Annual Meeting sessions, course surveys, and the AIChE **Education Division Concept Warehouse** 

Encouraging the development of future faculty through the Future Faculty **Mentoring Program** 

Supporting the recognition of engineering education excellence through awards

Serving as division session chairs and officers and volunteering for other division activities to develop leadership skills

pen to feedback and continuous improvement



Thank you to our ~50 session chairs and moderators!

We had 75 papers accepted to oral sessions, 32 invited talks, and 20 posters! (127 vs. 101 in 2017)

23 sponsored sessions + 12 co-sponsored sessions

Great sessions remain tomorrow



# Looking ahead to 2019

2019 Spring Meeting & 15<sup>th</sup> Global Congress on Process Safety March 31<sup>st</sup> to April 4<sup>th</sup> in NO, LA

Ed Div will not offer programming

2019 Annual Meeting November 10<sup>th</sup> to 15<sup>th</sup> in Orlando, FL If interested in chairing a session, contact Ben: <a href="mailto:bdavis@cooper.edu">bdavis@cooper.edu</a>





Programming meeting was earlier today



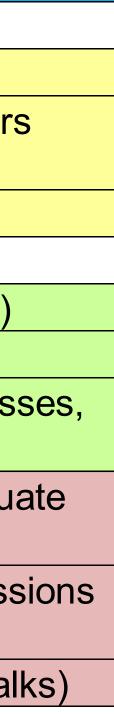




# Attend Tomorrow's Program!

	Wednesday
AM	Department Heads Forum (Invited Talks)
	Teaching Communication Skills to Engineer
AM	(Written, Oral, Data Visualization)
AM	Young Faculty Forum (Invited Talks)
Lunch	
PM1	ABET Updates and Insights (Invited Talks)
PM1	NSF Workshop I: Highlights from CBET
	Workshop: Teaching Design (Products, Proces
PM1	and Ind. Inv.)
	Free Forum on Engineering Education: Gradu
PM2	Students
	NSF Workshop II: Proposal Writing and Discus
PM2	with Program Managers
PM2	Survey Results and Best Practices (Invited Ta





# **Course Survey**

2018-19 Survey = Thermodynamics (80+ programs responding) Presentation Wednesday 10/31 afternoon (3:30 in room 405)

Partnered with NAE on a small "separations" survey (SU 2018) In discussion with CACHE on partnership on upcoming computing survey

2019-20 Survey Potential Topics:

10 year anniversary of the reincorporated survey committee!

Considering a separate survey on Fluid Mechanics or Heat Transfer or Mass Transfer (in addition to the previous "transport" survey).

Foresee on the horizon looping back to our first topic (1st year ChemE).

Jennifer Cole, Kevin Dahm (co-chair), Laura Ford, Lucas Landherr, David Silverstein, Margot Vigeant (co-chair), Christy West



# K-12 Committee

New AIChE-wide K-12 Outreach Committee to be established in upcoming year Monthly conference calls start in January

Supports all K-12 efforts, and be a central resource and repository for K-12 activities by other committees and divisions

Will lead/organize several K-12 events for AIChE each year Including the K-12 Outreach Module Competition, to launch at the 2019 Annual Meeting

Seeking committee members, including those interested in leadership positions **Including Education Division liaison** If interested in contributing in any form, contact l.landherr@northeastern.edu

Lucas Landherr, Matt Cooper, Kenny Minneart



## Future Faculty Mentoring Program

Mentees: Advertised to the Meet the Faculty Candidate pool

54 applicants (34 last year)

Mentors: Advertised to Ed Div, Dept. Chairs, Women's Initiatives Committee, and past mentor/mentees

- 27 mentor/junior mentor applicants (10 last year)
- 6 Female Mentors/Junior Mentors

Will continue to use triad model this year

– Mentor + Junior Mentor + Mentee

Initial meeting was on Sunday evening

2018-2019 Cohort: 18 Mentees (down from 19), 19 mentors, 10 junior mentors **Observations:** 

- Back to 1:1 mentor/mentee ratio;
- More applicants = more mentors needed additional recruiting ideas?
- Focus on ChemE candidates? Candidates from outside ChemE but who want to work in ChemE Dept.

### Don Visco, Dan Burkey



# Web page cleaned up

Education Division (EDU)	
AIChE Education Division	View Edit Group Content Group Menu Education Division (EDU)
Home About and Join Leadership Awards	
Course Surveys Future Faculty Programs Other Resources	Share in Share de Like 0 G+ V Tweet (S) (S) The second
Membership Files	Improving the Quality of Chemical Engineering Education
Academy Videos	The Education Division promotes the education of chemical engineers as it pertains to educational research, scholarly teaching, and applications to include the broader endeavors which encompass education, such as those which are part of the Division's programming
Post Content	commitment. Learn more →
Translate this page	Announcements
🚟 📰 🚺 🚍 🔤 Celect Language 🔹 🗿	October 2018 EdDiv Announcements

### Matthew Liberatore, Katie Cadwell



## More Ed Div Webinars

6 completed to date (2 in 2018) Live attendance 10-35/session 4 Recordings watched ~35 total times Archived at <u>aiche.org/academy</u> Always free for Ed Div members Looking for volunteers (please contact lepek@cooper.edu if you are interested!)

Daniel Lepek, Patrick Abulencia

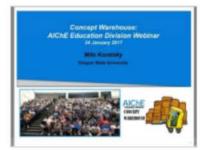


# Always free for members

4 results for : EDU - Education Division : education division

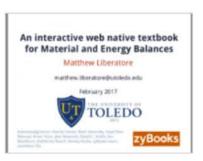
### Filter by keywords:





### Education Division Webinar: Concept Warehouse

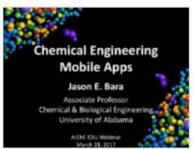
Archived Webinar <sup>ID</sup> Jan 24, 2017 Many engineering educators and industry partners emphasize the need for students to apply their knowledge to new and challenging problems. A lack of conceptual understanding has been shown to severely restrict students' ability to solve new problems since they do not have the foundational...



### Education Division Webinar: Zybooks Interactive Textbook for ...

Archived Webinar

Interactive textbooks provide instant feedback to students as well as instructors. In this webinar, features of an interactive textbook from zyBooks (zybooks.com) for a material and energy balance course were detailed, including scaffolded question sets, animations, homework problems, and challenge...



Search

### Education Division Webinar: Chemical Engineering Mobile Apps

Archived Webinar Mar 28, 2017 Although we have seen a nearly complete shift among chemical engineering students from desktop to laptop computers, it has merely created an incremental change in their education. However, the benefits of mobile devices in engineering education still remain largely untapped. There is a great need...



Education Division Webinar: General Strategy for Development ...

Archived Webinar Apr 25, 2017 The importance of developing teamwork skills for engineers is abundantly clear, but the means to do so can be prohibitive with regards to factors like cost or time. In this webinar, we will share the details of how our activity is implemented and the impacts and benefits the research have...

### Game-based Learning March 13, 2018

### Academic Integrity April 26, 2018

### <u>New: Food/Thanksgiving!</u> November 20, 2018

### www.aiche.org/academy Check EDU under source on left menu







### **Award for Excellence in Engineering Education Research** Milo Koretsky

### Award for Service to Chemical Engineering Education Laura Ford

### Award for Innovation in Chemical Engineering Education Lucas Landherr

Polly Piergiovanni, Daniel Lepek, Taryn Bayles, Tony Butterfield

# 2 of 3 awards sponsored in 2018

# Education Division Award for Excellence in Engineering Education Research



### Education Division Award for Innovation in Chemical Engineering Education





### Special call out for programs in the following areas:

- STEM outreach
- **Diversity & Inclusion**
- Education
- Technical Innovation
- Localized Activities
- Collaborative Programming and Community Partnerships

### **2018 Project Reports:**

### Due December 11<sup>th</sup>

(https://chenected.wufoo.com/forms/m1ox43691jp8iki/)

Story telling (photos, videos, testimonials, etc.)





### **2019 First Cycle of Funding**

### October 1 Cycle opens for proposal submissions December 1 Submission deadline for grant proposals Announcement of grants funded February 2

**Proposal Submissions:** https://aiche.formstack.com/forms/aiche\_foundation\_funding\_proposal\_submission\_form

### Successful proposals

✓ Support the Foundation "**Doing a World of Good**" transformative priorities

✓ Have been thorough reviewed with your **staff liaison** who will:

- Check new business eligibility and coordinate review Ο
- Collect endorsement letter from Operating Council leadership & AIChE executive leadership Ο
- Review and verify program resource estimates, staff labor hours, honorarium fees, reception costs, etc. Ο
- Answer your questions and guide you through the proposal development process

Document previous program impact (photos, videos, testimonials, etc.)





### Institute Update – Kristine Chin

### Special Thanks

Outgoing Division Director Polly Piergiovanni



### **New Business**

The floor is open



### **Please Join Us for the Ed Div Dinner!**

**Ticketed event** 

- Immediately after this Business Meeting we will leave as a group
- Venue is about a 10 min walk (0.5 mile):
  - Lidia's Italian
  - 1400 Smallman St
  - Pittsburgh, PA 15222

